INTRODUCTION

This section provides an executive level summary of the performance information covered in this report and is intended to bring to Management's attention that information considered to be most noteworthy. All cost, schedule, milestone commitments, and safety data is current as of January 31. Accomplishments, Issues and Integration items are current as of March 1 unless otherwise noted.

The section begins with a description of notable accomplishments that have occurred since the last report and are considered to have made the greatest contribution toward safe, timely, and cost-effective clean up. Following the accomplishment section is an overall fiscal year-to-date summary analysis addressing cost, schedule, and milestone performance. Overviews of safety ensue. The next segment of the Executive Summary, entitled Critical Issues, is designed to identify the high-level challenges to achieving cleanup progress.

The Key Integration Activities section follows next, highlighting PHMC activities that cross contractor boundaries and demonstrate the shared value of partnering with other Site entities to accomplish the work. Concluding the Executive Summary, a forward-looking synopsis of Upcoming Planned Key Events is provided.

NOTABLE ACCOMPLISHMENTS

- A total of 173 cans of Plutonium oxides and sludges have been stabilized through thermal stabilization (9 items in January 2000).

- Progress continues on the installation of three additional muffle furnaces for thermal stabilization of polycubes and on installation of the $Mg(OH)_2$ process glovebox.

- The Canister Storage Building (CSB) is 95 percent complete, compared to 95 percent planned.

- The Carlsbad Area Office (CAO) audit of Hanford's Transuranic (TRU) Project to meet the requirements of the new Part B Waste Isolation Pilot Plant (WIPP) Resource Conservation and Recovery Act (RCRA) Permit was completed in January. EPA is going to recommend qualification of the Hanford site TRU QA Program.

- Over 4,000 cubic feet (FYTD) of mixed low-level waste were shipped to ATG, Inc. (ATG) for non-thermal treatment. ATG completed four macro-encapsulated waste containers to date, and preparations are on schedule to receive the first treated waste shipment into the Mixed Waste Disposal trenches in February.

- Acceleration of deactivation at the 327 Facility made good progress in January. Transfer of forty specimen containers from dry storage was completed. To date, sixty-nine specimen containers out of approximately 300 planned have been transferred.

PERFORMANCE DATA AND ANALYSIS

The following provides a brief synopsis of overall PHMC Environmental Management (EM) cost, schedule, and milestone performance.

FY 2000 Cost and Schedule Performance

Cost Performance — Fiscal-year-to-date (FYTD) cost performance reflects a four percent ($6.7 million) unfavorable cost variance that is within the established +10/-5 percent threshold.

Schedule Performance — There is a FYTD eleven percent ($20.0 million) unfavorable schedule variance.

Data Through January 2000

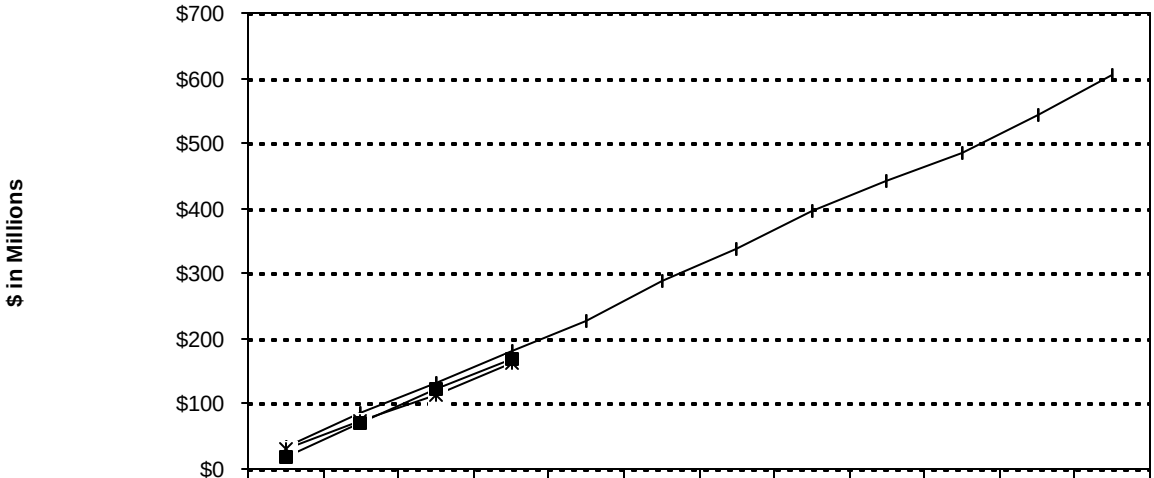
		Total FY PTS BCWS	Current Fiscal Year Performance ($ x Million) FYTD BCWS	FYTD BCWP	FYTD ACWP	Schedule Variance	Cost Variance
1.2	**Waste Management** TP02,WM03-05	109.7	31.9	29.2	28.6	(2.7) *	0.6
1.2.4	**Analytical Svcs (222-S,HASP,WSCF)** WM06	27.6	8.8	8.7	8.8	(0.1)	(0.1)
1.3	**Spent Nuclear Fuel** WM01	195.1	55.5	47.0	62.4	(8.5)	(15.4)
1.4.5	**Nuclear Materials Stabilization** TP05	127.9	41.2	35.9	30.4	(5.3)	5.5 *
1.4	**River Corridor** TP01,TP04,TP08,TP10,TP12,TP14	60.8	16.8	16.6	16.5	(0.2)	0.1
1.5	**Landlord** TP13	14.3	3.9	2.9	1.4	(1.0)	1.5 *
1.8	**Mission Support** OT01, OT04	35.9	13.1	12.1	11.3	(1.0)	0.8
1.9	**HAMMER** HM01	5.5	1.7	1.7	1.6	0.0	0.1
1.12	**Advanced Reactors (EM)**	1.3	0.4	0.4	0.4	0.0	0.0
	PHMC EM Clean-Up Projects	**578.1**	**173.3**	**154.5**	**161.4**	**(18.8)**	**(6.9)**
1.11	**National Programs** OT02-03, OT06, WM07	5.8	1.3	1.0	1.4	(0.3)	(0.4)
	Technology Development (EM-50)	23.6	6.9	6.0	5.4	(0.9)	0.6
	Total Other Projects	**29.4**	**8.2**	**7.0**	**6.8**	**(1.2)**	**0.2**
	Total PHMC Projects	**607.5**	**181.5**	**161.5**	**168.2**	**(20.0)**	**(6.7)**

Rounding *

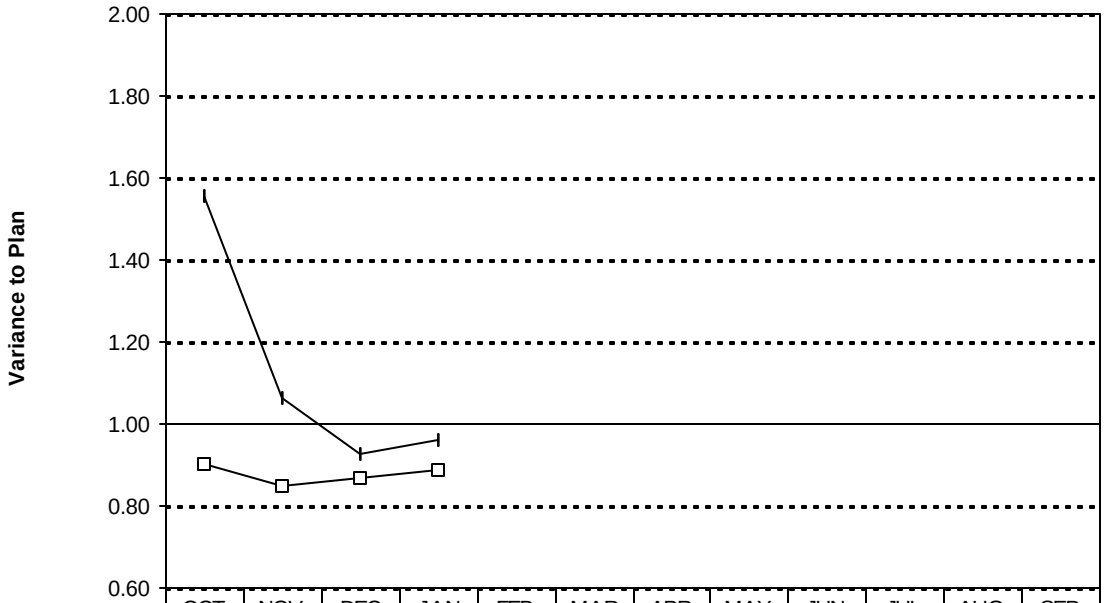
Notes: Column headings (BCWS, BCWP, etc.) are defined in the glossary at the end of the report. Calculations are based on Project Baseline Summary detail. Waste Management and Nuclear Materials Stabilization have included RL-Directed costs (e.g. steam and laundry) in the PEM BCWS. Advanced Reactors (EM) have included steam.

The following Cost/Schedule and Variance to Plan charts provide an overall graphical view of fiscal year to date performance. In addition, the first chart shows the budget phasing for the entire year. The second chart portrays cost and schedule performance indicators.

FY 2000 Cost / Schedule Performance
Cumulative to Date Status



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
FYSF												
PTS BCWS	33.0	87.2	130.6	181.5	228.7	288.0	336.7	395.8	440.8	485.7	543.0	605.4
BCWP	29.8	74.1	113.3	161.4								
ACWP	19.2	69.7	122.5	168.2								
SV	(3.2)	(13.1)	(17.3)	(20.1)								
CV	10.6	4.4	(9.2)	(6.8)								



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SPI	0.90	0.85	0.87	0.89								
CPI	1.55	1.06	0.92	0.96								

MILESTONE PERFORMANCE

Milestones represent significant events in project execution. They are established to provide a higher level of visibility to critical deliverables and to provide specific status about the accomplishment of these key events. Because of the relative importance of milestones, the ability to track and assess milestone performance provides an effective tool for managing the PHMC EM cleanup mission.

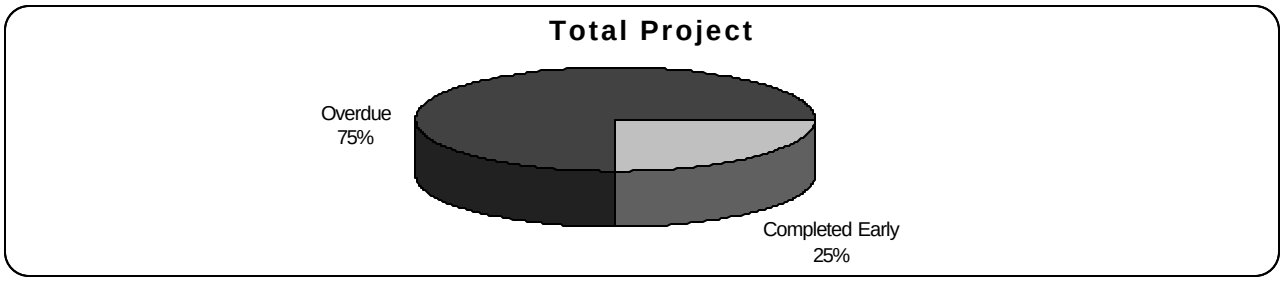
FYTD milestone performance (Enforceable Agreement [EA], U.S. Department of Energy-Headquarters [DOE-HQ], and RL) shows that 3 of 12 approved baseline milestones (25 percent) were completed on or ahead of schedule and 9 milestones (75 percent) are overdue. The nine overdue milestones are associated with four projects: Nuclear Material Stabilization—one, River Corridor—five, Environmental Management (EM)-50—three, and Mission Support—one. These overdue milestones do not share a common cause. Milestone baseline totals have been revised to show PHMC milestones only; prior reports may have included other project milestones.

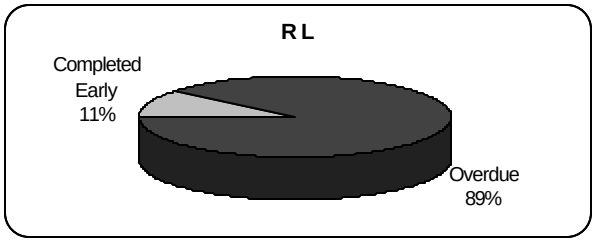
In addition to the FY2000 milestones described above, there are four overdue milestones from the prior fiscal year (FY1999). Further details regarding these milestones may be found in the Project Sections.

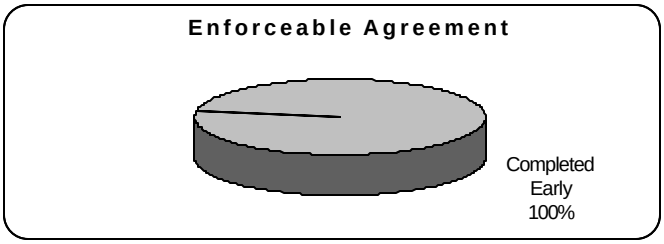
FY 2000 information is depicted graphically below and on the following page. For additional details related to the data in the graphs and prior year milestones, refer to the relevant project section titled “Milestone Exception Report.”

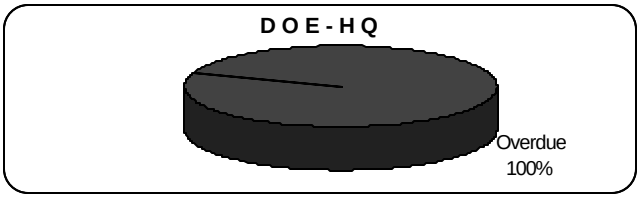
FY 2000 information reflects the current approved baseline. Changes in both the number and type of milestones from month to month are the result of Baseline Change Requests (BCRs) approved during the year.

MILESTONE TYPE	FISCAL YEAR-TO-DATE				REMAINING SCHEDULED			TOTAL FY 2000
	Completed Early	Completed On Schedule	Completed Late	Overdue	Forecast Early	Forecast On Schedule	Forecast Late	
Enforceable Agreement	2	0	0	0	0	5	0	7
DOE-HQ	0	0	0	1	0	1	0	2
RL	1	0	0	8	0	84	4	97
Total Project	3	0	0	9	0	90	4	106



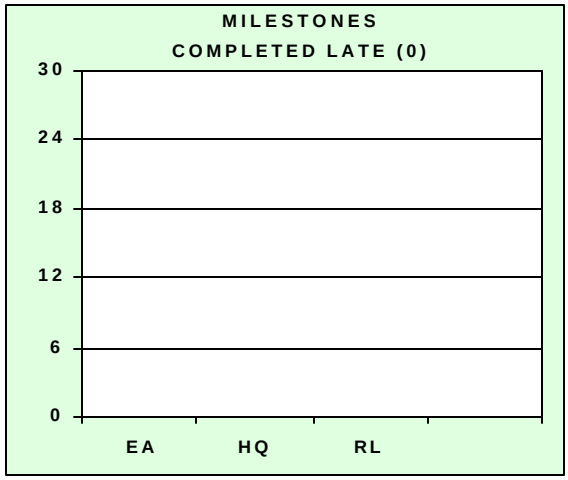


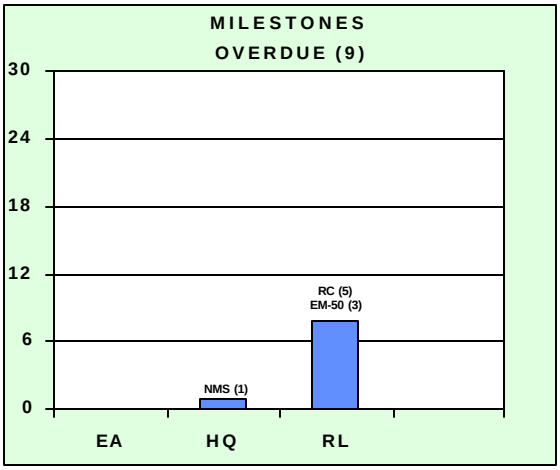




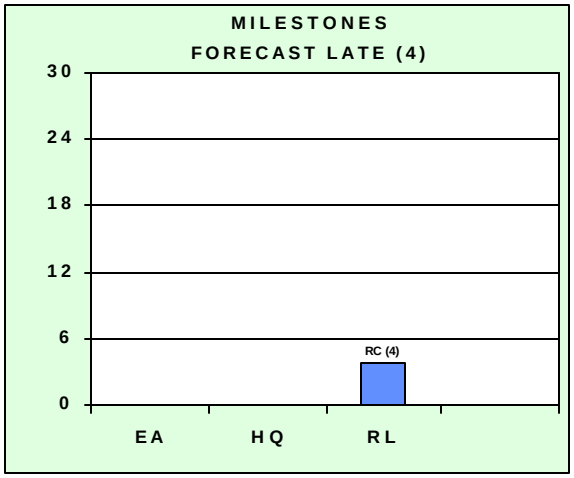
MILESTONE EXCEPTIONS

FISCAL YEAR TO DATE





REMAINING SCHEDULED



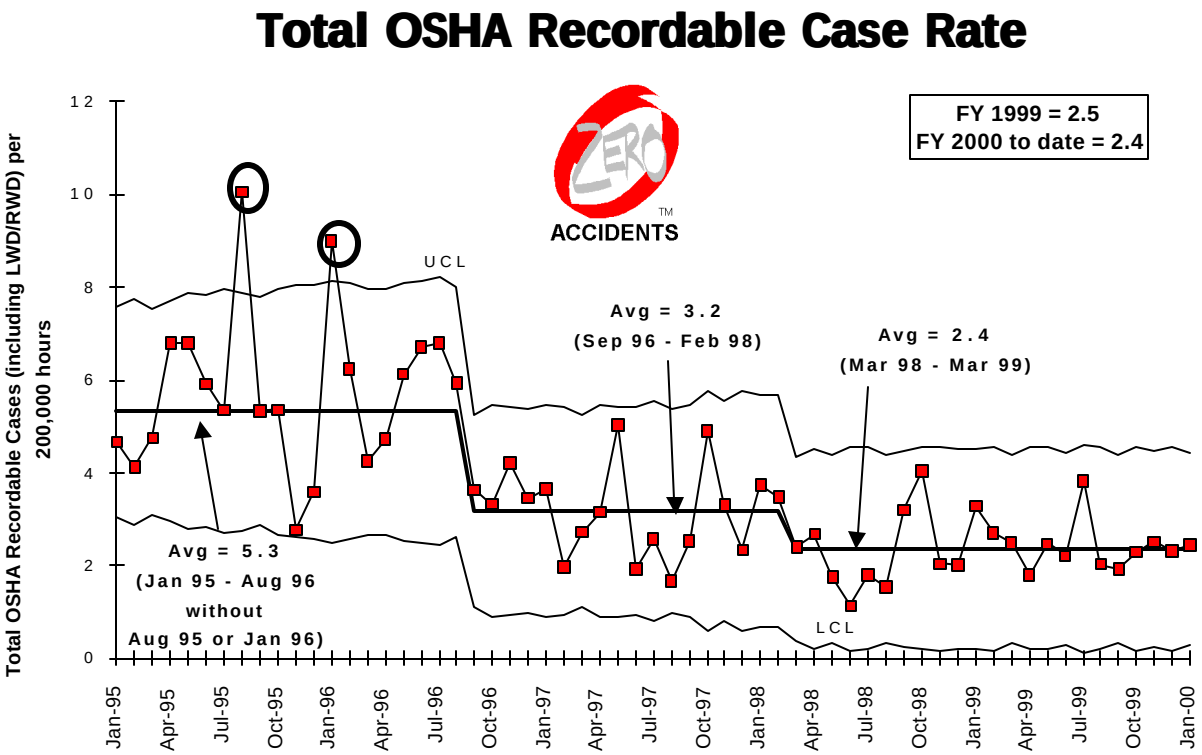
These charts provide detail by project and milestone level / type for milestones
- Completed Late
- Overdue
- Forecast Late
- Detailed information can be found in the individual project sections

SAFETY OVERVIEW

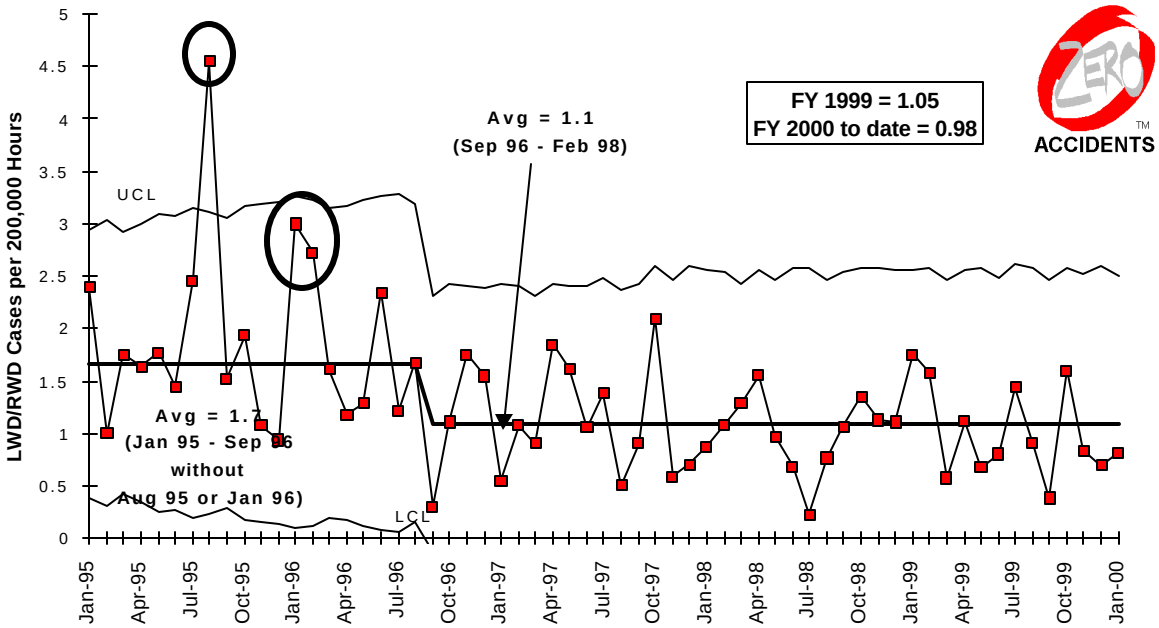
The focus of this section is to document trends in occurrences. Improvements in these rates are due to the efforts of the PHMC workforce as they implement the Integrated ES&H Management System (ISMS), work towards achieving Voluntary Protection Program (VPP) "star" status, and accomplish work through Enhanced Work Planning (EWP). Safety and health statistical data is presented in this section.

SIGNIFICANT SAFETY AND HEALTH EVENTS

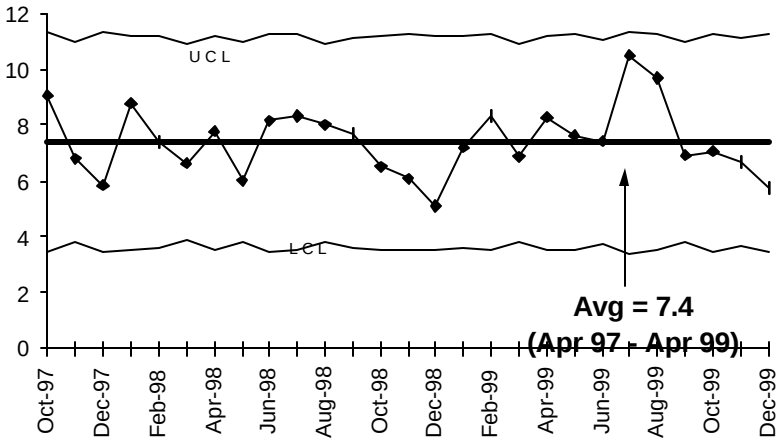
PHMC Statistics — Rates have been stable for nearly two years. This safety performance plateau has been recognized by the safety organizations, and Fluor Hanford kicked off its Integrated Safety Approach initiative on December 6, 1999 in order to take safety performance to a new level. This initiative focuses upon the "people side" of accident prevention.



OSHA LOST/RESTRICTED WORKDAY CASE RATE

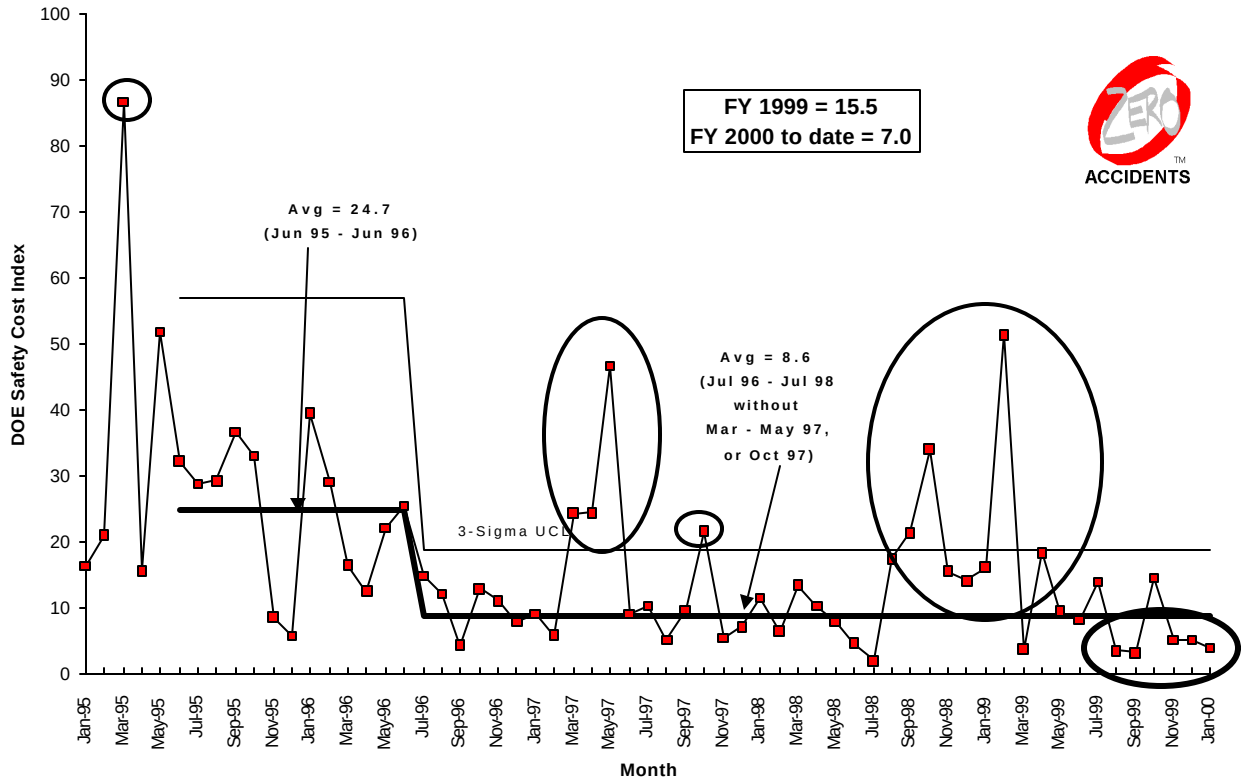


First Aid Case Rate



First Aid Rate undergoes seasonal cycles. Increases occur in warmer weather due to insect and animal encounters, and due to wind related minor injuries. The previously noted summer 1999 increase reduced due to case reclassifications.

DOE Safety Cost Index



CRITICAL TECHNICAL ISSUES

- **324 FACILITY BEHIND SCHEDULE**
  Downtime driven by equipment failure (A Cell crane) continues to create delays in the 324 Facility project schedules. The A Cell crane has been returned to limited service while procurement activities associated with repair are expedited. The implementation of the revised Project Management Plan has also resulted in some schedule recovery.

- **CERTIFICATION OF HANFORD'S TRU PROJECT NECESSARY TO INITIATE WASTE SHIPMENT TO WIPP**
  Delays in performing the closeout audit impact the ability to ship waste to WIPP. The contractor continues working with the Carlsbad Area Office, the Environmental Protection Agency and the New Mexico Environment Department to achieve WIPP certification of Hanford's TRU Project.

KEY INTEGRATION ACTIVITIES

The following are the key technical integration activities that are currently underway and cross project/contractor lines. These activities are being addressed by inter-discipline and inter-project groups and demonstrate that Hanford Site contractors are working together to accomplish the EM Clean up mission.

- Spent nuclear fuel (SNF) final disposition interface activities, including OCRWM QA Program implementation, ongoing with National SNF Program.

- 324 Building (B Cell) SNF removal acceptance criteria and conceptual design reviews ongoing with River Corridor Project.

- RCP Accelerated Deactivation Project personnel led a team comprised of workers from six Fluor Hanford organizations and three separate DOE contractors to complete the change out of B Plant's highly radioactive filters. This work, completed using innovative techniques and equipment was developed by this diverse work team, enhancing worker safety and productivity. This unparalleled cooperation and teamwork was recently recognized in a DOE surveillance which acknowledged the practices and processes used during this project met expectations by RL for "World Class" contractors performing work at Hanford.

- The DOE-HQ funded study of HLV Tank 105, located in the 324 Building is being conducted by AEA Technologies to demonstrate new technology in the deactivation of high dose radioactive tanks. The project technical plan, and implementation plan is completed while the draft of the alternatives assessment is on schedule for completion by April 2000.

- Continue working with PNNL on activities associated with the $Mg(OH)_2$ process in order to accelerate the solution stabilization process, and polycube stabilization issues (gathering data for the SAR).

UPCOMING PLANNED KEY EVENTS

The following Key events are extracted from the authorized baseline and are currently expected to be accomplished during the next eight months. Most are EA, HQ or DNFSB Milestones.

Waste Management:

- MLLW Treatment -- Treat 1,160 cubic meters (includes 100 cubic meters stretch) of MLLW at ATG by August 2000; return Land Disposal Restriction compliant waste for disposal.
- Suspect TRU Waste Retrieval -- Retrieve 400 drums of suspect TRU waste from the Low-Level Burial Grounds by September 2000 (Stretch).
- K Basin Sludge -- Develop design requirements by September 2000 for acceptance of K Basin sludge at T Plant.

Spent Nuclear Fuels:

- Deliver first shipment of Multi-Canister Overpacks (MCOs) and baskets by June 1, 2000.
- Begin DOE Operational Readiness Review for fuel removal by mid September 2000. Begin K West Basin fuel removal, drying & storage operations by November 30, 2000.

River Corridor Project:

- Complete all B Plant closeout activities by March 2000.
- Complete ISMS verification activities by May 15, 2000.
- Issue the final report for the 300 Area Waste Acid Treatment System (WATS) Resource Conservation and Recovery Act (RCRA) Closure Activities by September 2000.
- Complete Removal of 324 Building REC B Cell MW & Equipment by November 2000

Nuclear Materials Stabilization:

- Complete furnace cool-down tests and implement new procedures.
- Begin Pu solution stabilization via $Mg(OH)_2$ in FY 2000.
  - Deliver glove boxes and equipment for installation by April 11, 2000.
  - Complete ORR and training activities.
- Startup Cementation by April 21, 2000.
- Complete W-460 Facility Design by April 2000.
- Begin metal stabilization processing in November 2000.